Index of Claims

| App | lica | tion/ | Cor | itrol | No |
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|-----|------|-------|-----|-------|----|

10/588,503

Examiner

Melissa A. Black

| Applicant(s)/Patent | unde |
|---------------------|------|
| Reevamination       |      |

ISHII ET AL.

Art Unit

3612

| 7 | Rejected |
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| = | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| Z | Non-Elected  |
|---|--------------|
| I | Interference |

| A | Appeal   |
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| 0 | Objected |

| Claim  | 1              |
|--|----------------|
| 1     V     51     52     3     V     553     53     54     55     55     56     6     55     56     7     7     55     56     7     7     57     8     58     59   | $\neg \vdash$  |
| 1     V     51     52     3     V     54     55     53     54     55     55     56     7     55     56     7     7     55     56     7     7     57     8     58     59  |                |
| 1     V     51     52     3     V     553     53     54     55     55     56     6     55     56     7     7     55     56     7     7     57     8     58     59   |                |
| Section   Sect |                |
| Section   Sect | $\dashv$       |
| 3    V   |                |
| 4   √     5   √     6   55     6   55     7   57     8   59     10   60     11   61     12   62     13   63     14   64     15   65     16   66     17   67     18   68     19   69     20   70     21   71     22   72     23   73     24   74     25   76     27   77     28   78     29   79     30   80     31   81     32   82     33   84     35   85     36   86     37   87     38   89     40   90     41   91     42   92     43   93 <tr< td=""><td></td></tr<>   |                |
| 5     V       6     55       7     56       7     57       8     58       9     60       11     61       12     62       13     63       14     64       15     65       16     66       17     67       18     68       19     69       20     70       21     71       22     72       23     73       24     74       25     75       26     76       27     77       28     78       29     79       30     80       31     81       32     82       33     83       34     84       35     85       36     86       37     87       38     88       39     89 </td <td>-</td>   | -              |
| 6   7     8   57     8   57     9   60     110   61     111   62     133   63     144   64     15   65     16   66     17   67     18   68     19   69     20   70     21   71     22   73     24   74     25   75     26   76     27   77     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   94     44   94   |                |
| 7   8     9   58     9   60     110   60     111   61     12   62     13   63     14   64     15   65     16   66     17   67     18   68     19   69     20   70     21   71     22   73     24   74     25   75     26   76     27   77     28   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   90     40   90     41   91     42   92     93   93     44   94     45   96  | $\dashv$       |
| 8   9     10   60     11   61     12   62     13   63     14   64     15   65     16   66     17   67     18   68     19   69     20   70     21   71     22   72     23   73     24   74     25   75     26   76     27   77     28   79     30   80     31   81     32   82     33   84     35   85     36   86     37   87     38   88     39   90     40   90     41   92     43   94     44   94     45   95  |                |
| 9  |                |
| 10   |                |
| 111   12   61   62     13   63   63   64     14   64   65   65     16   66   66   67     17   68   68   69     19   69   69   69     20   70   71   72   73     21   71   72   73   74   74   74   75   75   76   77   78   78   79   30   80   80   81   81   82   82   83   83   84   84   83   84   84   84   84   85   86   86   90   90   90   90   90   90   90   90   90   94   94   94   94   94   94   95   96   96   97   98   97   98   98   97   97   98   98   99   99   99   99   99   99   99   99   99   99   99   99   99   99   99   99  |                |
| 12   13   62   63     14   64   65   65     15   66   66   67     16   66   67   67     18   68   69   70     20   70   71   72     21   71   72   73     24   74   74   75     26   76   77   78     29   79   30   80     31   31   81   83     34   84   84   84     35   85   86   86     37   87   88   89     40   90   90   91     41   91   92   93     43   94   94   94     44   99   99   99     46   96   97   97     48   98   99   99  | Ш              |
| 13   63     14   65     15   66     16   66     17   67     18   68     19   69     20   70     21   71     22   72     23   73     24   74     25   76     26   76     27   77     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   86     36   86     37   87     38   88     39   90     41   91     42   92     43   94     44   95     96   96     47   97     48   |                |
| 14   15   64   65     16   66   67   67     17   68   69   69     20   70   71   72   73     21   72   73   73   73   73   73   74   74   75   76   77   78   78   79  | لبل            |
| 15   65     16   66     17   66     18   68     19   69     20   70     21   71     22   72     23   74     25   75     26   76     27   77     28   78     29   79     30   80     31   82     33   83     34   84     35   85     36   86     37   88     39   89     40   90     41   91     42   92     43   94     44   95     46   96     47   97     48   98  |                |
| 16   17     18   66     19   68     20   70     21   71     22   72     23   73     24   74     25   75     26   77     27   77     28   79     30   80     31   81     32   83     33   84     35   85     36   86     37   87     38   88     39   88     40   90     41   91     42   92     43   94     44   94     45   96     46   97     48   98  |                |
| 17   18     19   68     20   70     21   71     22   72     23   73     24   74     25   75     26   76     27   77     28   79     30   80     31   81     32   82     33   84     35   85     36   86     37   88     38   88     39   89     40   90     41   91     42   92     43   94     45   96     46   96     47   97     48   98  |                |
| 18   68     19   70     21   71     22   72     23   73     24   74     25   75     26   76     27   77     28   78     29   80     30   80     31   81     32   82     33   84     35   85     36   86     37   88     39   89     40   90     41   91     42   92     43   94     45   96     47   97     48   98  |                |
| 19   69     20   70     21   71     22   73     23   74     25   75     26   76     27   78     29   79     30   80     31   81     32   83     33   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   94     45   96     46   96     47   97     48   98  |                |
| 20   70     21   71     22   73     24   74     25   75     26   76     27   77     28   79     30   80     31   81     32   82     33   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   94     45   96     46   96     47   97     48   98  |                |
| 20   70     21   71     22   73     23   74     25   75     26   76     27   77     28   79     30   80     31   81     32   82     33   84     35   85     36   86     37   87     38   88     39   89     40   90     41   91     42   92     43   94     45   96     46   96     47   97     48   98  |                |
| 21   71     22   73     24   74     25   75     26   76     27   78     29   79     30   80     31   81     32   83     33   84     35   85     36   86     37   88     39   89     40   90     41   91     42   92     43   94     44   95     46   96     47   98  | $\neg$         |
| 22   72     23   73     24   74     25   75     26   76     27   77     28   78     29   79     30   80     31   81     32   82     33   84     35   85     36   86     37   88     39   89     40   90     41   91     42   92     43   94     45   96     47   97     48   98  |                |
| 23   73     24   74     25   75     26   76     27   77     28   78     29   79     30   80     31   81     32   82     33   84     35   85     36   86     37   87     38   88     39   90     41   90     42   92     43   94     44   94     45   96     47   97     48   98  | $\dashv$       |
| 24   74     25   75     26   76     27   77     28   78     29   79     30   80     31   81     32   82     33   84     35   85     36   86     37   87     38   88     39   90     41   91     42   92     43   94     45   96     47   97     48   98  | $\top$         |
| 25   75     26   76     27   77     28   78     29   79     30   80     31   81     32   82     33   84     35   85     36   86     37   88     39   89     40   90     41   91     42   92     43   94     45   96     47   97     48   98  | $\dashv$       |
| 26   76     27   77     28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   90     41   91     42   92     43   94     44   94     45   96     47   97     48   98  | $\dashv$       |
| 27 28   29 79   30 80   31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 90   41 91   42 92   43 94   45 96   47 97   48 98  | $\dashv$       |
| 28   78     29   79     30   80     31   81     32   82     33   83     34   84     35   85     36   86     37   87     38   88     39   90     41   91     42   92     43   94     45   96     47   97     48   98  | +              |
| 29 79   30 80   31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 91   41 91   42 92   43 94   45 96   47 97   48 98  | +              |
| 30 80   31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  | +              |
| 31 81   32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  | +              |
| 32 82   33 83   34 84   35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  |                |
| 33 83   34 84   35 85   36 86   37 87   38 87   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 98  | $\dashv\dashv$ |
| 34 84   35 85   36 86   37 87   38 87   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  | $\dashv\dashv$ |
| 35 85   36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  |                |
| 36 86   37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  | +              |
| 37 87   38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  |                |
| 38 88   39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  |                |
| 39 89   40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  |                |
| 40 90   41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  |                |
| 41 91   42 92   43 93   44 94   45 95   46 96   47 97   48 98  |                |
| 42 92   43 93   44 94   45 95   46 96   47 97   48 98  | _              |
| 43 93   44 94   45 95   46 96   47 97   48 98  | $\perp$        |
| 44   |                |
| 45   | _ _            |
| 46   | $\perp$        |
| 47   |                |
| 48 98  |                |
|  |                |
|  |                |
|  |                |
| 50 100   |                |

| Claim    |          | Date     |                    |                                     |          |          |              |                                     |          |          |
|----------|----------|----------|--------------------|-------------------------------------|----------|----------|--------------|-------------------------------------|----------|----------|
|          |          |          |                    |                                     |          |          |              |                                     |          |          |
| <u>a</u> | Original |          |                    |                                     |          |          |              |                                     |          |          |
| Final    | .Ē       |          |                    |                                     |          |          |              |                                     |          |          |
| "-       | Ō        |          |                    |                                     |          |          |              |                                     |          |          |
|          | E4       | -        |                    |                                     | _        |          | -            |                                     |          | _        |
|          | 51<br>52 | _        |                    | -                                   |          |          | _            | _                                   | <u> </u> |          |
|          | 52       |          |                    |                                     |          |          | _            | _                                   | Ш        |          |
|          | 53       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 54       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 55       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 56       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 57       |          |                    |                                     | _        |          |              |                                     |          |          |
|          | 58       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 59       | $\vdash$ |                    |                                     |          | _        | $\vdash$     |                                     |          |          |
| -        | 60       | -        |                    | ├─                                  | _        | _        | -            | _                                   |          | -        |
|          | 60       | $\vdash$ | _                  | -                                   |          | -        |              |                                     | H        |          |
| -        | 61       | <b>.</b> | Щ                  | <u> </u>                            | <u> </u> | <u> </u> | <u> </u>     | <u> </u>                            | $\vdash$ | Η.       |
| <u></u>  | 62       | <u> </u> | <u> </u>           | <b> </b>                            | _        | L_       |              |                                     | <u> </u> | <u> </u> |
|          | 63       | L        |                    | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L_       | L        |              |                                     | L_       |          |
| L        | 64       | <u></u>  |                    |                                     | L        | <u> </u> |              |                                     | L        |          |
|          | 65       |          |                    |                                     | L        | <u> </u> |              |                                     | L        | L        |
|          | 66       |          |                    | L                                   | L        | L        | L            |                                     | Ĺ        | L        |
|          | 67       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 68       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 69       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 70       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 71       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 72<br>73 |          |                    |                                     |          |          |              |                                     |          | -        |
|          | 73       | ·        |                    |                                     |          |          |              |                                     |          |          |
|          | 74       |          |                    |                                     | $\vdash$ | $\vdash$ | _            |                                     |          | $\vdash$ |
|          | 75       |          |                    | _                                   |          |          | -            |                                     |          | $\vdash$ |
|          | 76       | _        |                    | $\vdash$                            |          | $\vdash$ | $\vdash$     | <b>-</b>                            | _        | $\vdash$ |
|          | 77       | _        | -                  | _                                   |          | _        | _            |                                     |          | _        |
| <b>—</b> | 78       |          |                    | $\vdash$                            |          |          | $\vdash$     | -                                   |          | $\vdash$ |
|          | 79       |          |                    | -                                   |          |          | $\vdash$     |                                     |          | -        |
| -        | 80       | -        |                    | -                                   |          |          | ├            |                                     |          | $\vdash$ |
| <b></b>  | 81       | _        | -                  | ├                                   |          | -        | -            | $\vdash$                            | _        | -        |
| -        | 82       |          | -                  | ├                                   |          |          | <del> </del> |                                     |          | -        |
|          | 02       |          | -                  | ├                                   | <u> </u> | _        | -            |                                     | <u> </u> | _        |
| -        | 83       |          | <u> </u>           | $\vdash$                            | _        |          | <u> </u>     | _                                   | -        | <u> </u> |
| -        | 84       |          | $\vdash$           | <u> </u>                            | ļ        | <u> </u> | <u> </u>     | $\vdash$                            | $\vdash$ | $\vdash$ |
|          | 85       | $\vdash$ | <u> </u>           | _                                   | <u> </u> | <u> </u> | <b> </b>     | _                                   | <u> </u> | <u> </u> |
|          | 86       | L.       | _                  | <u> </u>                            | <u> </u> |          | ļ            | L_                                  | L.       |          |
| ļ        | 87       |          | L_                 | <u> </u>                            | L.,      | L.,      | ļ            | <u> </u>                            | <u> </u> | L.,      |
|          | 88       |          | _                  | <u> </u>                            |          | <u> </u> |              | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | L_       |          |
|          | 89       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 90       |          |                    |                                     |          |          |              |                                     |          |          |
| <u></u>  | 91       |          |                    |                                     | L        |          |              |                                     |          |          |
|          | 92       |          |                    | $\Box$                              |          |          |              |                                     |          |          |
|          | 93       | Ш        |                    |                                     |          |          |              |                                     | L        |          |
|          | 94       |          | $oxedsymbol{oxed}$ |                                     | L        | _        |              |                                     |          |          |
|          | 95       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 96       |          |                    | 匚                                   | L        |          |              |                                     |          |          |
|          | 97       |          |                    |                                     |          | L        |              |                                     |          |          |
|          | 98       |          |                    |                                     |          |          |              |                                     |          |          |
|          | 99       |          |                    |                                     |          |          |              |                                     |          |          |
| 1        | 100      |          |                    |                                     |          |          | 1            |                                     |          | _        |

| Claim |   | Date   |          |                                     |              |  |  |          |          |                        |
|-------|---|--|----------|-------------------------------------|--------------|--|--|----------|----------|------------------------|
| Final | Original  |  |          |                                     |              |  |  |          |          |                        |
|       | 101   |  |          | -                                   |              |  |  |          |          | $\Box$                 |
|       | 102   |  |          |                                     |              |  |  |          |          |                        |
|       | 103   |  |          |                                     |              |  |  |          |          |                        |
|       | I 1∩⊿   |  |          |                                     |              |  |  |          |          |                        |
|       | 105<br>106  |  |          |                                     |              |  |  |          |          |                        |
|       | 106   | L  |          |                                     |              |  |  |          |          |                        |
|       | 107   |  |          |                                     |              |  |  |          |          |                        |
|       | 108<br>109  |  |          |                                     |              |  |  |          |          | Щ                      |
|       | 109   | _  |          | Ш                                   |              | L  |  |          |          | Щ                      |
|       | 110   | _  | _        |                                     |              |  | _  |          |          | _                      |
|       | 111   | <u> </u>   |          | <u> </u>                            | -            |  | _  |          | <u> </u> | $\vdash$               |
|       | 111<br>112<br>113   | <u> </u>   | $\vdash$ | $\vdash$                            | H            |  |  | -        | L        | $\vdash$               |
|       | 113   | <del> </del>                                     | $\vdash$ | $\vdash$                            | <del> </del> | -  |  | <u> </u> | -        | $\vdash$               |
|       | 114<br>115  | $\vdash$   | $\vdash$ |                                     |              | $\vdash$                                     |  | Ь        | -        | Н                      |
|       | 116   | <del>                                     </del> | $\vdash$ |                                     | $\vdash$     | $\vdash$                                     | -  | —        | $\vdash$ | $\vdash \vdash$        |
|       | 116<br>117  | $\vdash$   |          |                                     | Ι-           |  | _  | _        | ⊨        | $\vdash \vdash$        |
|       | 1118  |  | <b> </b> | $\vdash$                            |              | $\vdash$                                     |  | <u> </u> | H        | H                      |
|       | 119<br>120<br>121   |  |          | Ι-                                  |              | _  |  |          |          | П                      |
|       | 120   |  |          |                                     |              |  |  |          |          |                        |
|       | 121   |  |          |                                     |              |  |  |          |          | П                      |
|       | 122   |  |          |                                     |              |  |  |          |          |                        |
|       | 123   |  |          |                                     |              |  |  |          |          |                        |
|       | 122<br>123<br>124   |  |          |                                     |              |  |  |          |          |                        |
|       | 125   |  |          | _                                   |              | _  |  |          |          |                        |
|       | 126   |  | _        | _                                   | ļ            | <u>.                                    </u> |  |          |          | Ш                      |
|       | 127   | <u> </u>   |          | <u> </u>                            |              |  |  |          | <u> </u> | Щ                      |
|       | 128   | <u> </u>   | _        | <u> </u>                            | <u> </u>     | _  |  |          | <u> </u> |                        |
|       | 129   | ├  | -        | ┝                                   | _            | <u> </u>                                     |  | <u> </u> | <u> </u> | Н                      |
|       | 125<br>126<br>127<br>128<br>129<br>130<br>131<br>132<br>133 | -  | -        | ├—                                  |              |  |  | _        |          | Н                      |
|       | 131   |  | $\vdash$ | H                                   | -            | <del> </del>                                 |  |          | ⊢        | $\vdash\vdash$         |
|       | 132   | $\vdash$   | -        | ⊢                                   | ┝            | <del> </del>                                 |  |          | -        |                        |
|       | 134   | ┢  | H        | <u> </u>                            |              | ┝  |  |          | -        | Н                      |
|       | 135   | $\vdash$   |          |                                     | H            | <u> </u>                                     | <del>                                     </del> |          | <b>—</b> | $\vdash \vdash \vdash$ |
|       | 136<br>137<br>138   | <b></b> -  | Н        |                                     | $\vdash$     | $\vdash$                                     | <u> </u>   | $\vdash$ | -        | $\vdash \vdash$        |
|       | 137   | Ι  |          | Г                                   |              |  |  |          | Г        | $\vdash$               |
|       | 138   |  |          |                                     |              |  | ,  |          |          | $\Box$                 |
|       | 139<br>140  |  |          |                                     |              |  |  |          |          |                        |
|       | 140   |  |          |                                     |              |  |  |          |          |                        |
|       | 141   |  |          |                                     |              |  |  |          |          |                        |
|       | 142   | L_   |          | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | oxdot        |  |  |          |          |                        |
|       | 143   | <u> </u>   | L_       |                                     | L            | L  |  |          |          | Ш                      |
|       | 144   |  |          |                                     | _            |  | ļ  |          |          | Щ                      |
|       | 145   | <u> </u>   |          | Ш                                   | _            | <u> </u>                                     |  | _        |          |                        |
|       | 146   | <u> </u>   | <u> </u> |                                     | <u> </u>     | <u> </u>                                     | _  |          |          | Щ                      |
|       | 147   | <u> </u>   | _        | -                                   | -            | H  |  | Ь.,      |          |                        |
|       | 148<br>149  | <u> </u>   |          | $\vdash$                            | <u> </u>     | <del> </del>                                 |  | <u> </u> | -        | $\vdash \vdash$        |
|       | 150   | $\vdash$   |          | -                                   | ├            | $\vdash$                                     | <del> </del>                                     | ├        | -        | Н                      |
|       | 130   | <u> </u>   | L        | Ц.,.                                | L            | L  | L  | Ц        | L        | Ш                      |